

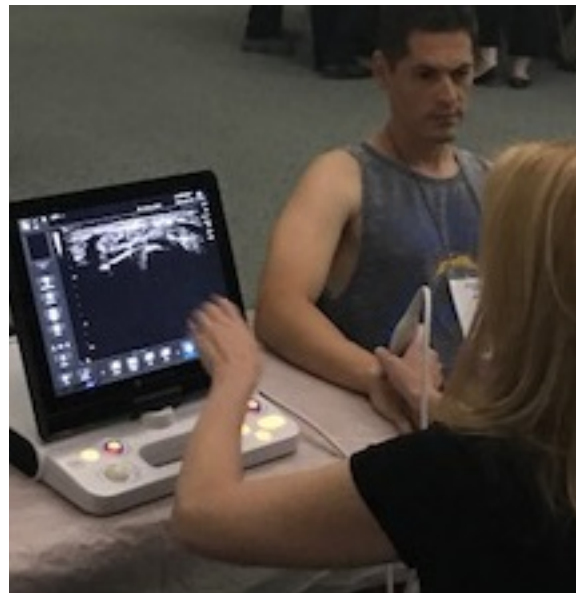
The Practical Fundamentals of Musculoskeletal Ultrasound

Hand and Wrist Exam for Rheumatology



Positioning

- Patient
 - Sitting
 - Hands resting palm down on small table
- Machine
 - Position system to the right of the patient, facing the same direction as the patient
- Sonographer
 - Sit facing patient



Probe selection and positioning

- Use a high frequency linear or hockey stick probe



- Position indicator side of probe proximally for long axis views
- Position indicator side of probe laterally (ulnar) for short axis views

Bilateral hand and wrist exam for RA

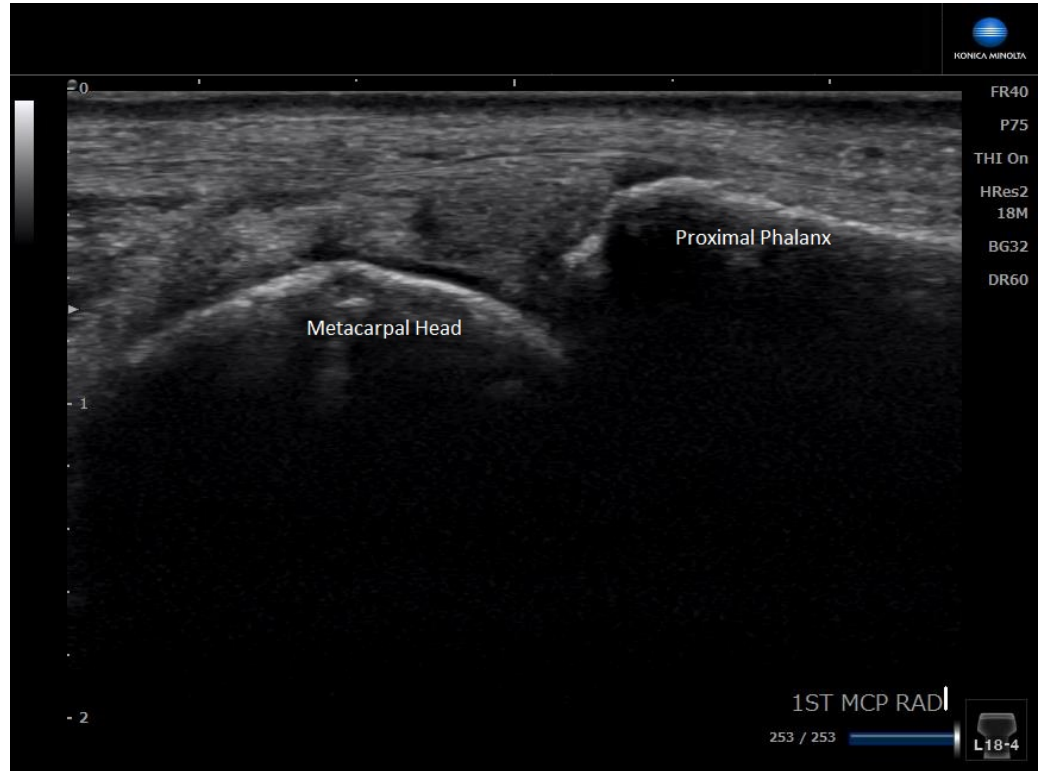
- Hand
 - Metacarpophalangeal (MCP) joints 1 through 5
 - Long axis views
 - Radial
 - Dorsal
 - Dorsal with power Doppler
 - Ulnar
 - Short axis views
 - Dorsal
 - Dorsal with power Doppler

Bilateral hand and wrist exam for RA

- 1st Carpometacarpal joint
 - Long axis
 - Short axis
- Dorsal wrist
 - Short axis
 - Lister's tubercle
 - 4th wrist compartment
 - Scapholunate ligament
 - Long axis
 - Radial view
 - Capitate view
 - Ulnar view

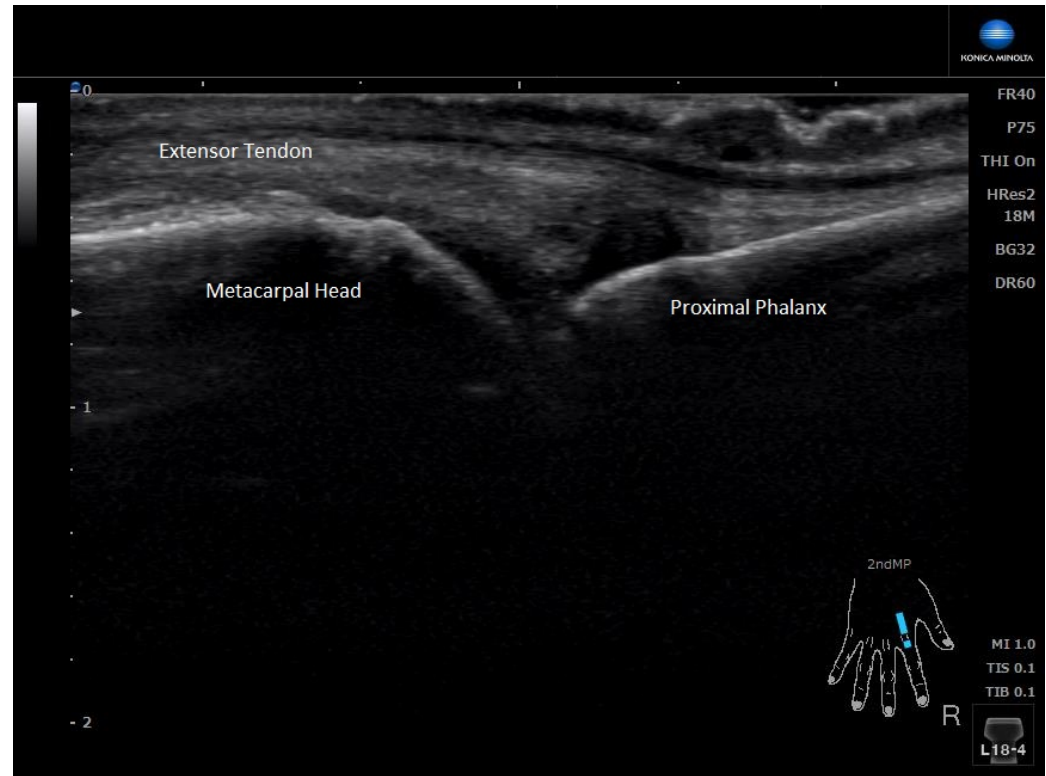
Metocarpophalangeal joints

- Radial long axis



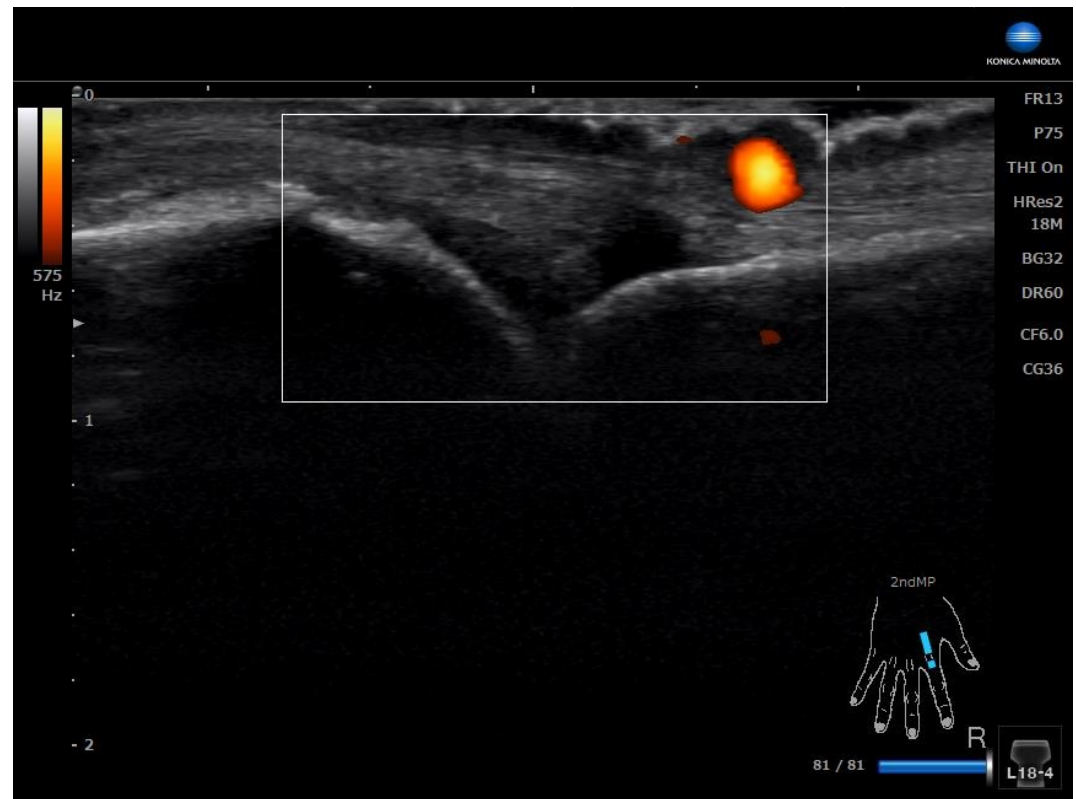
Metocarpophalangeal joints

- Dorsal long axis



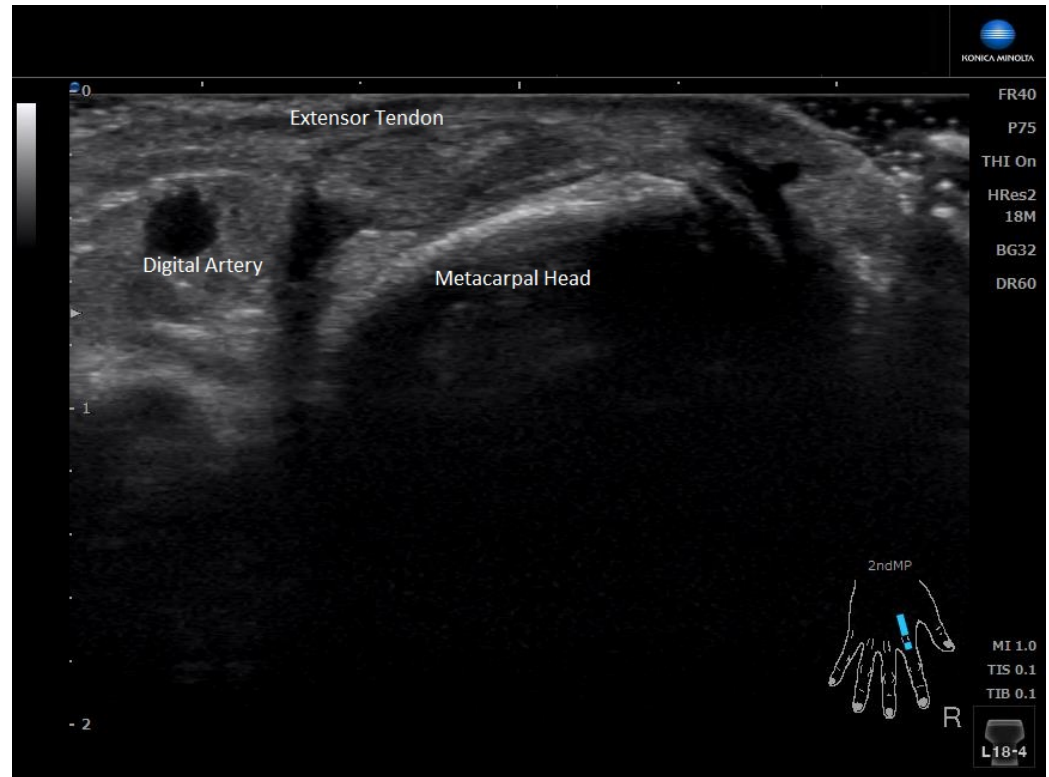
Metocarpophalangeal joints

- Dorsal long axis with power Doppler



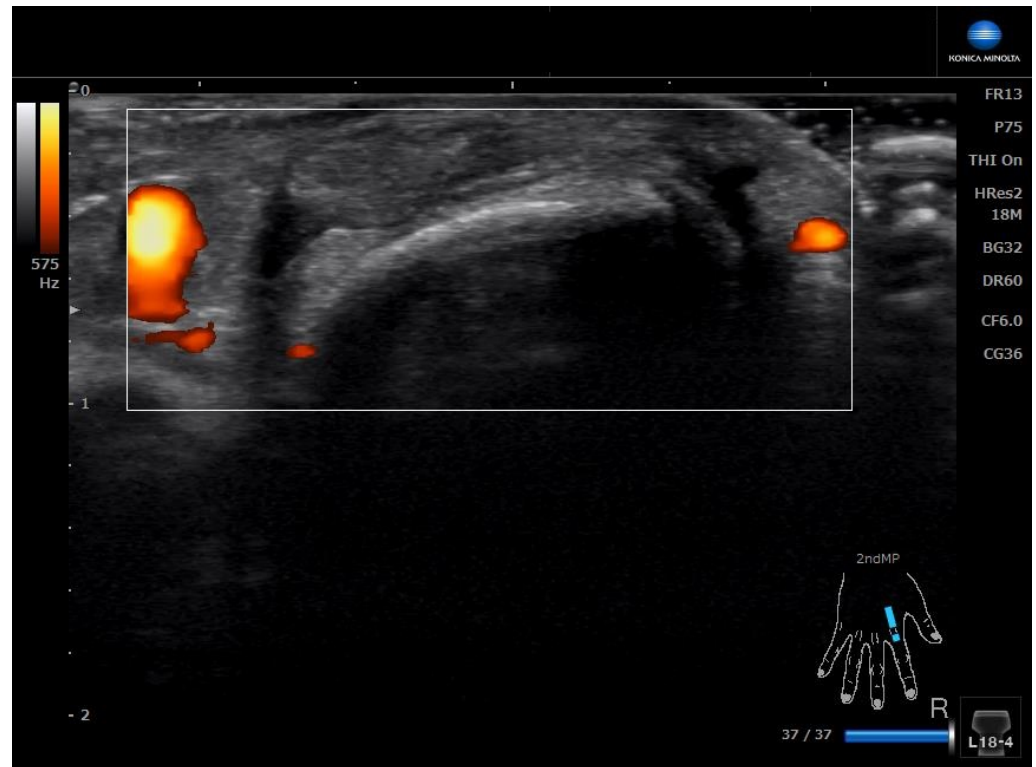
Metocarpophalangeal joints

- Dorsal short axis



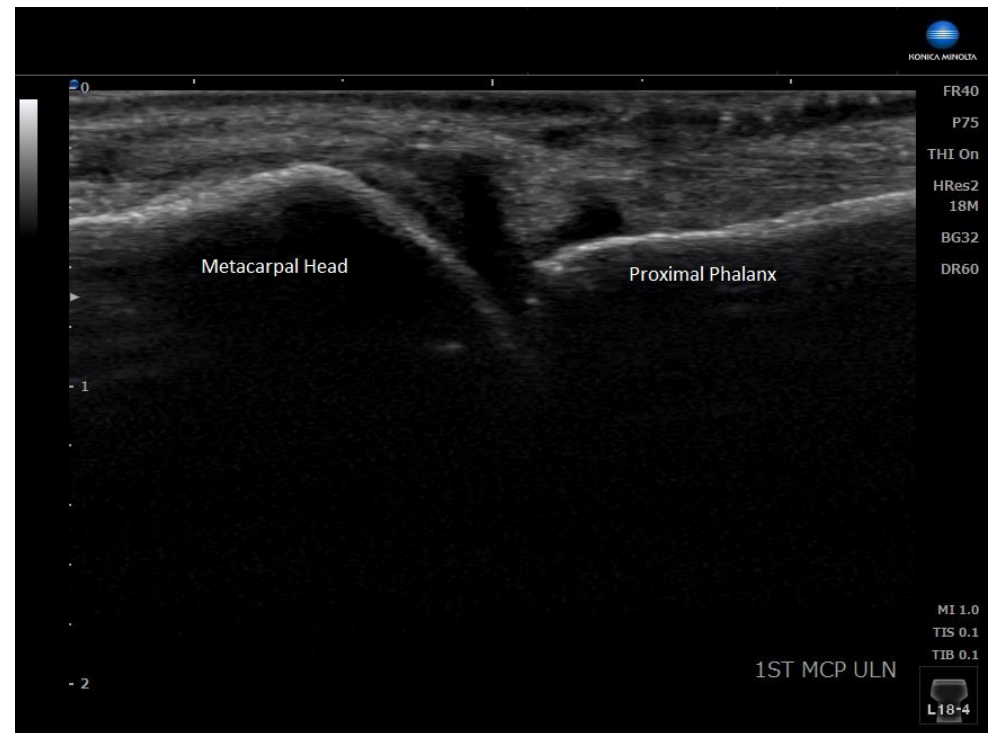
Metocarpophalangeal joints

- Dorsal short axis with power Doppler



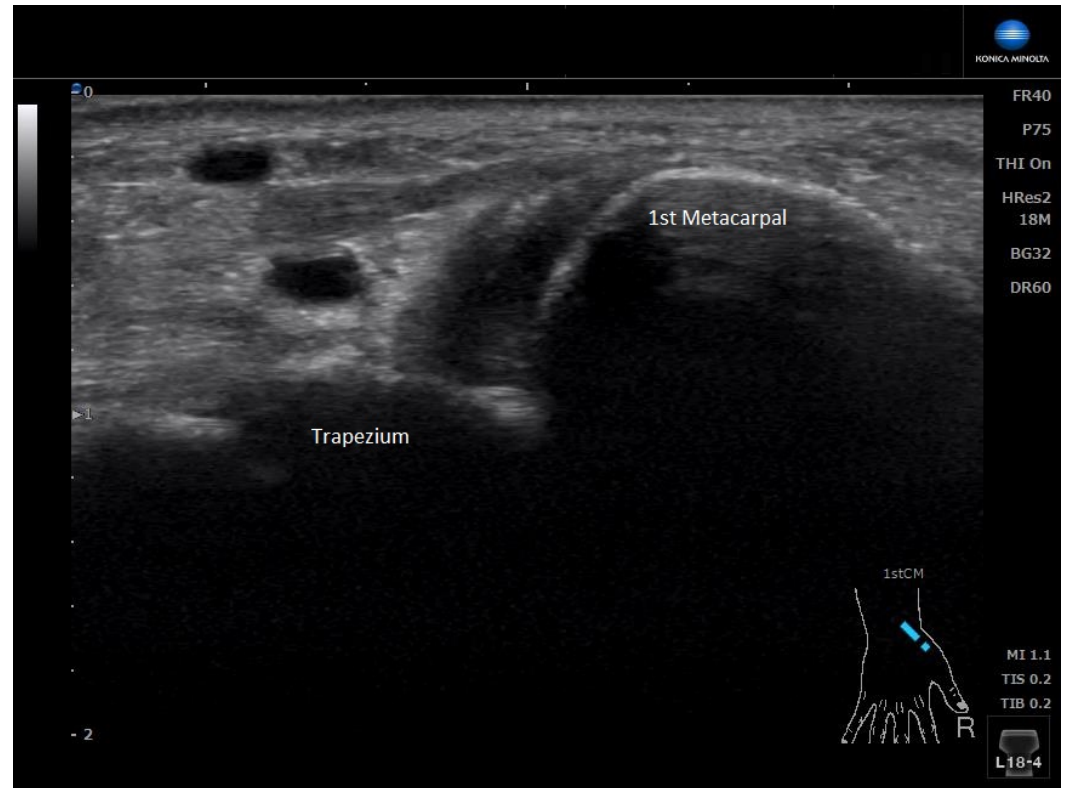
Metocarpophalangeal joints

- Ulnar long axis



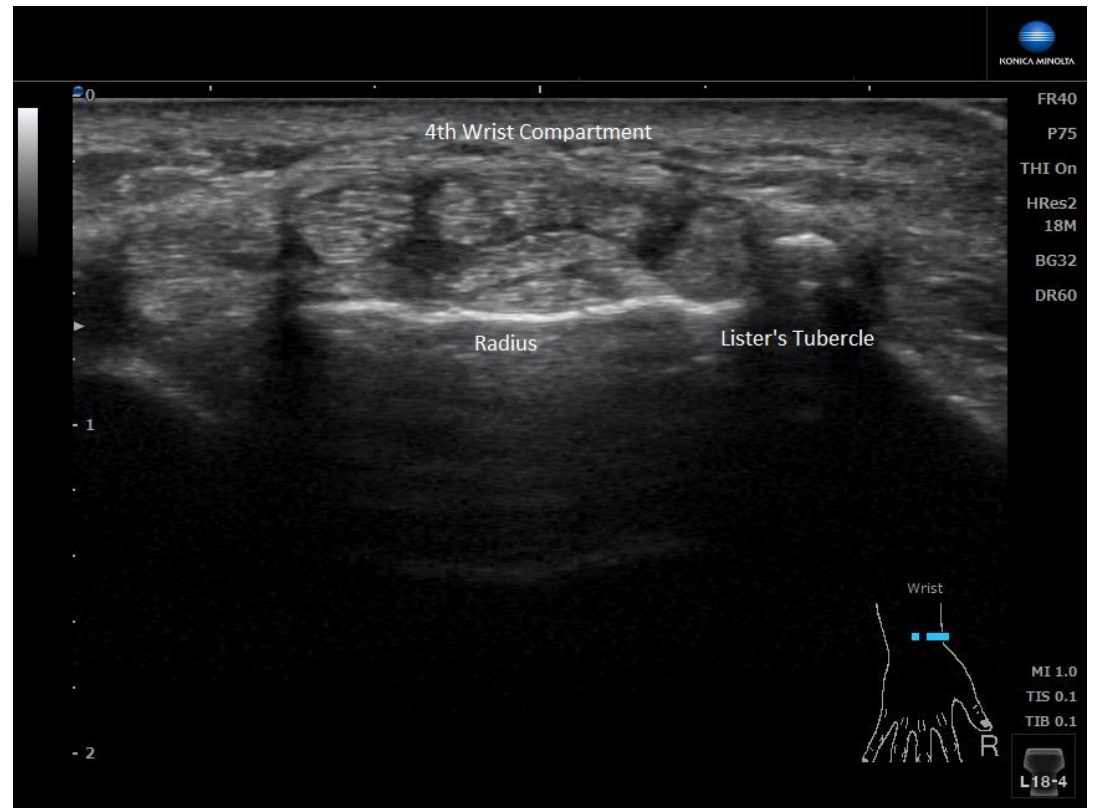
1st CMC joint

- Dorsal long axis



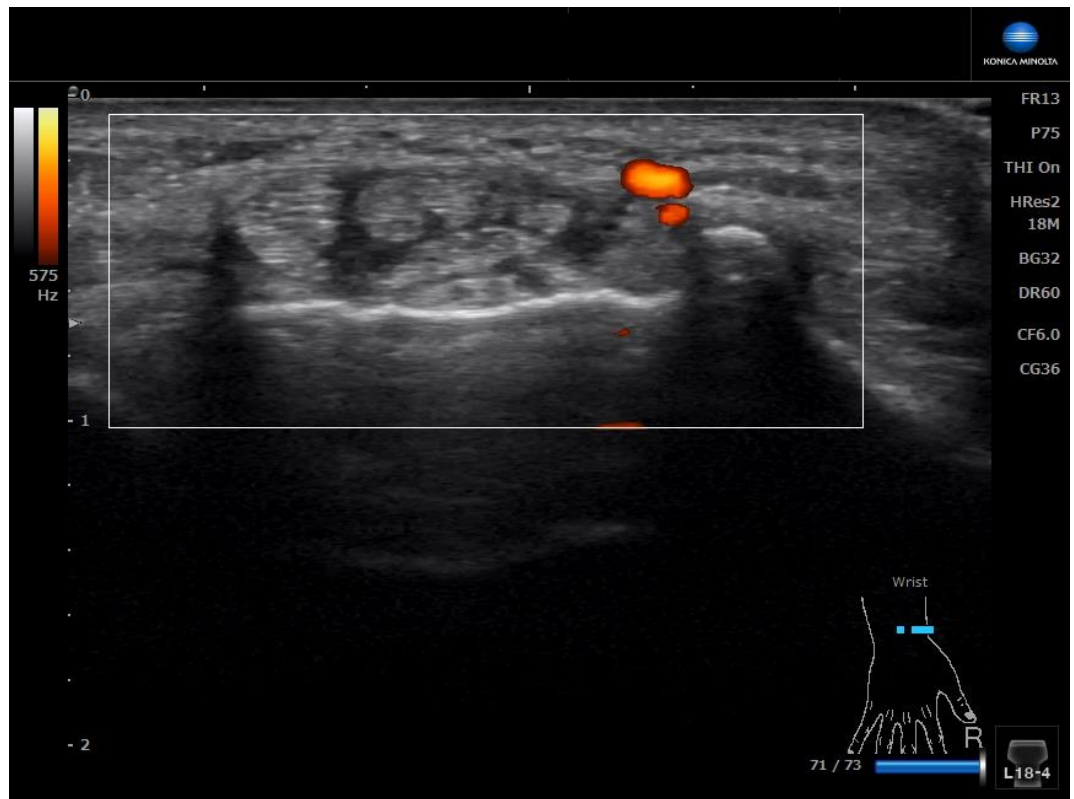
Dorsal wrist

- Short axis



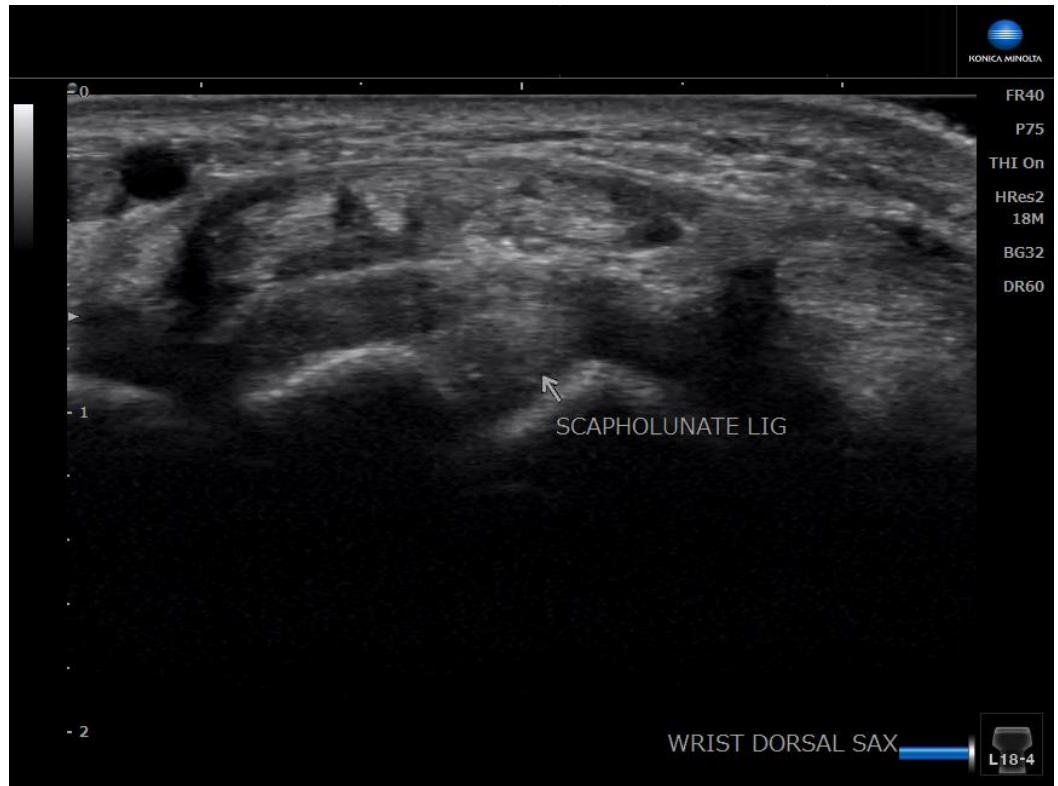
Dorsal wrist

- Short axis with power Doppler



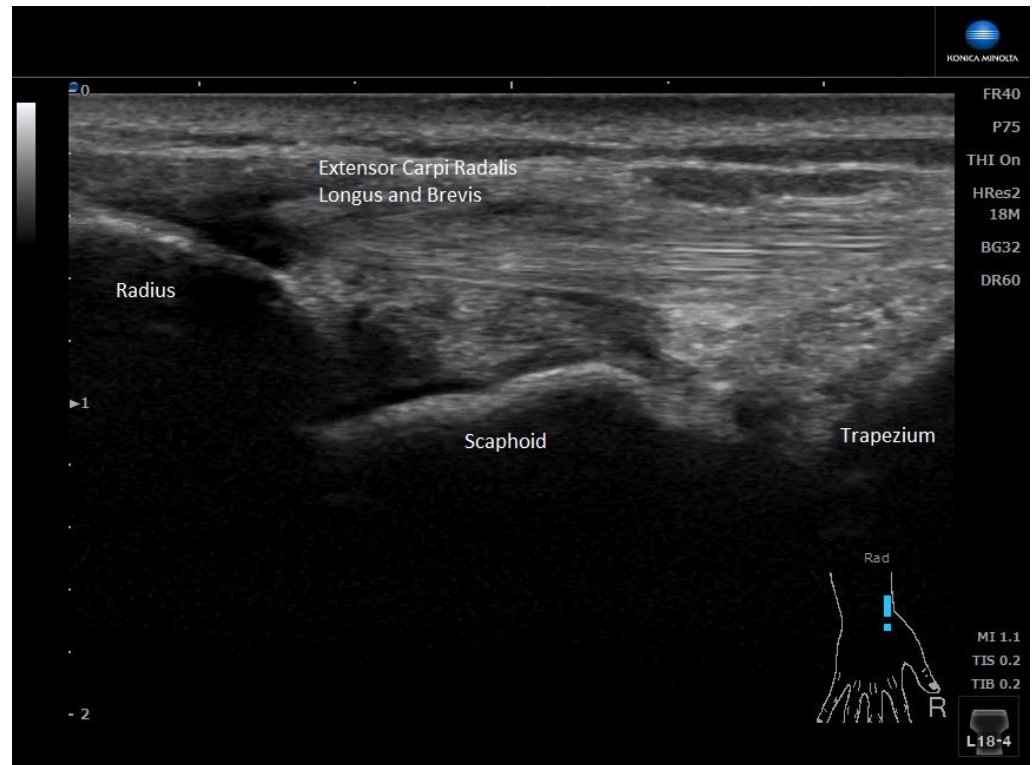
Dorsal wrist

- Scapholunate ligament



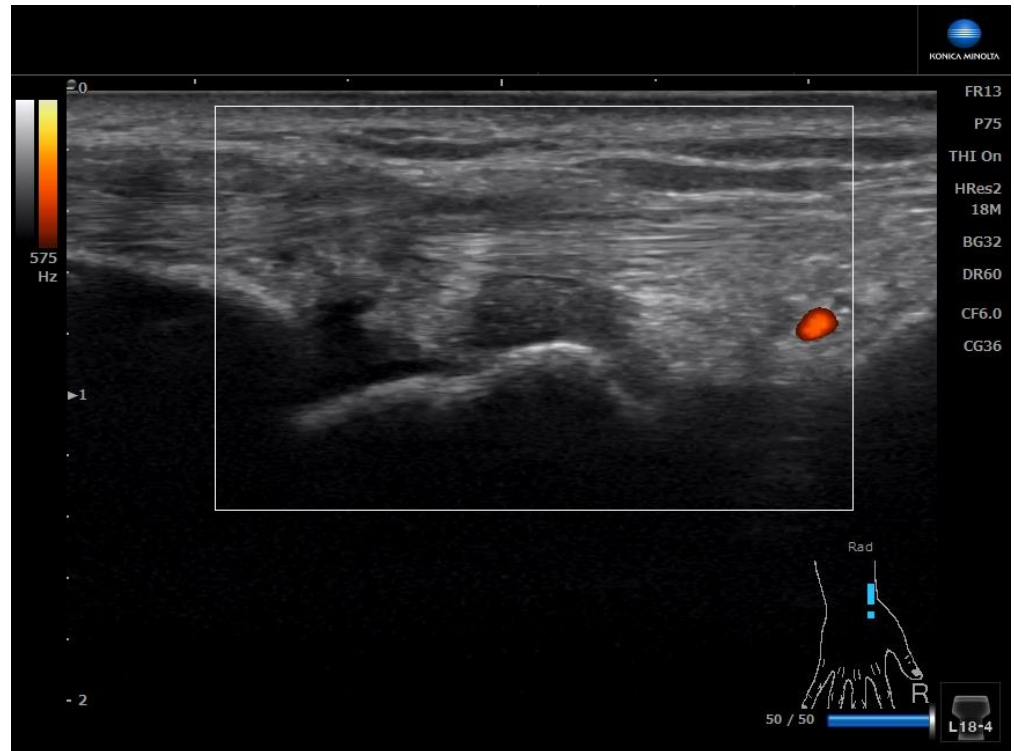
Dorsal wrist

- Radial long axis



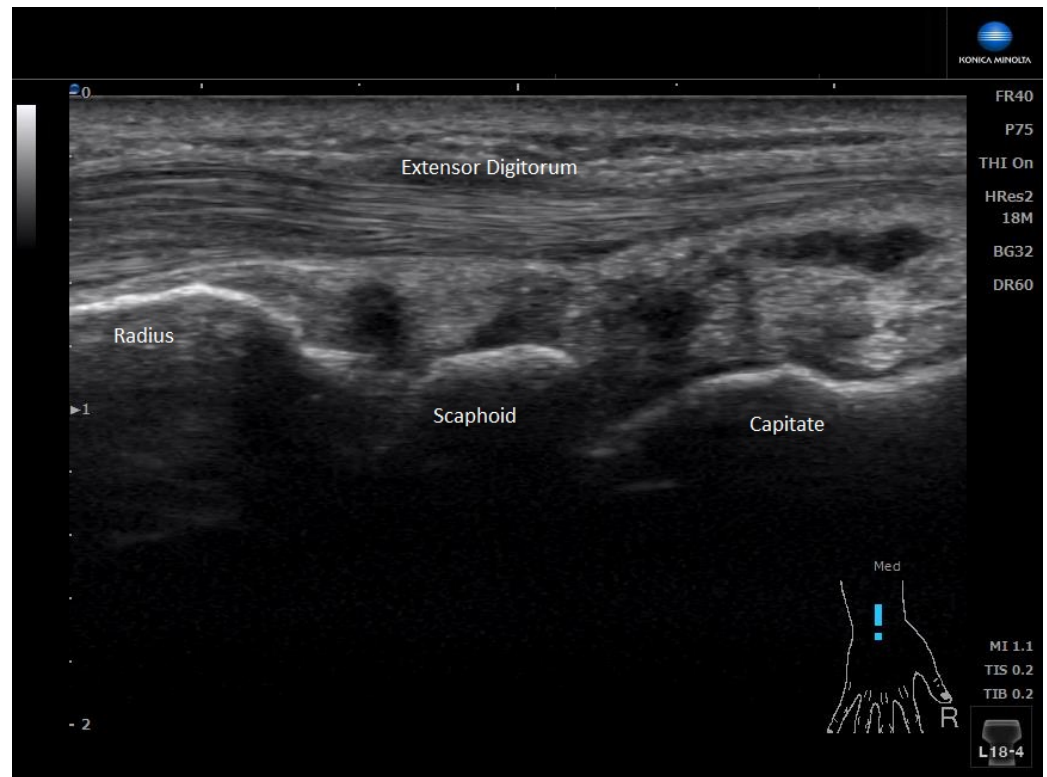
Dorsal wrist

- Radial long axis with power Doppler



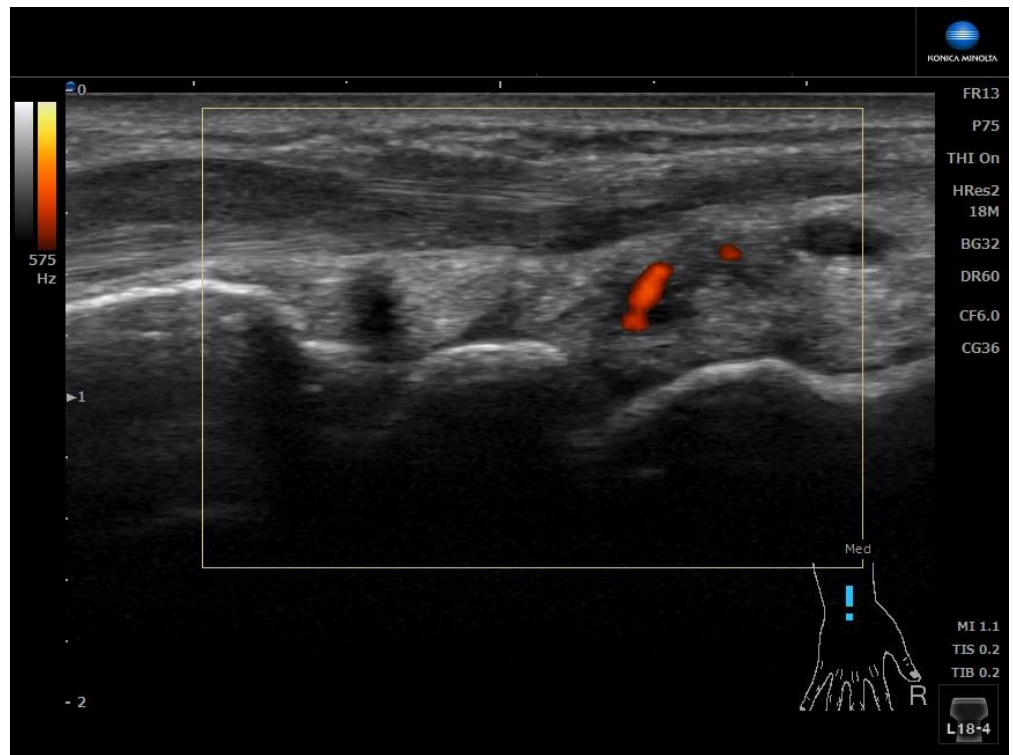
Dorsal wrist

- Capitate long axis



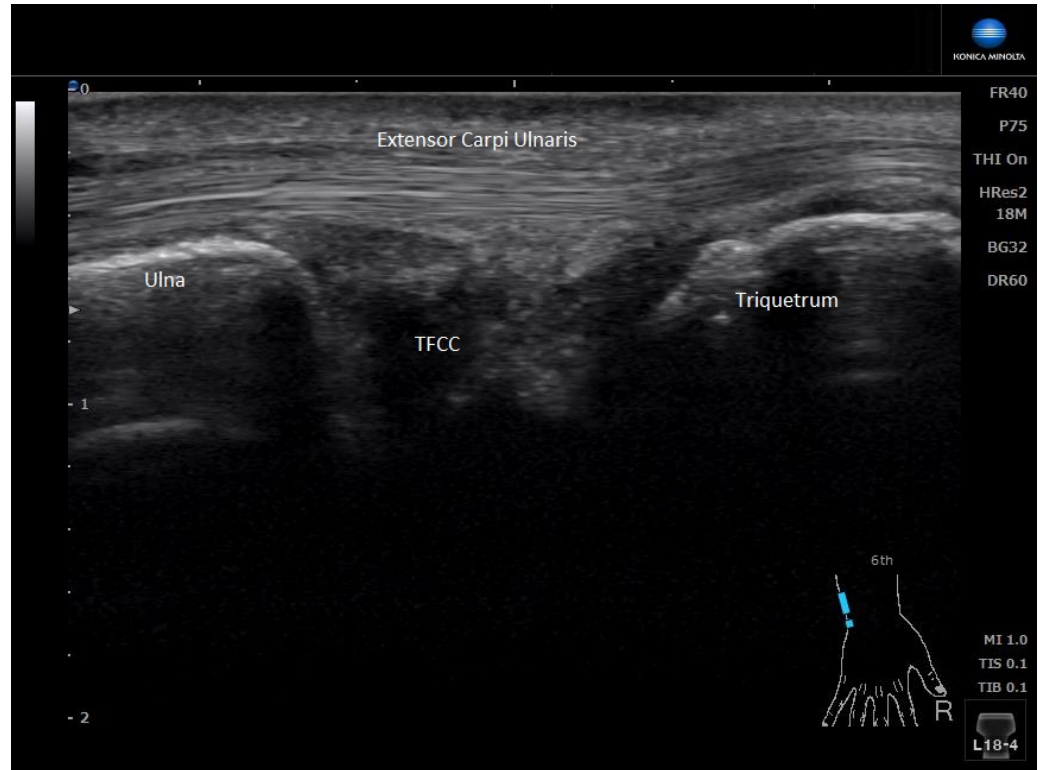
Dorsal wrist

- Capitate long axis with power Doppler



Dorsal wrist

- Ulnar long axis



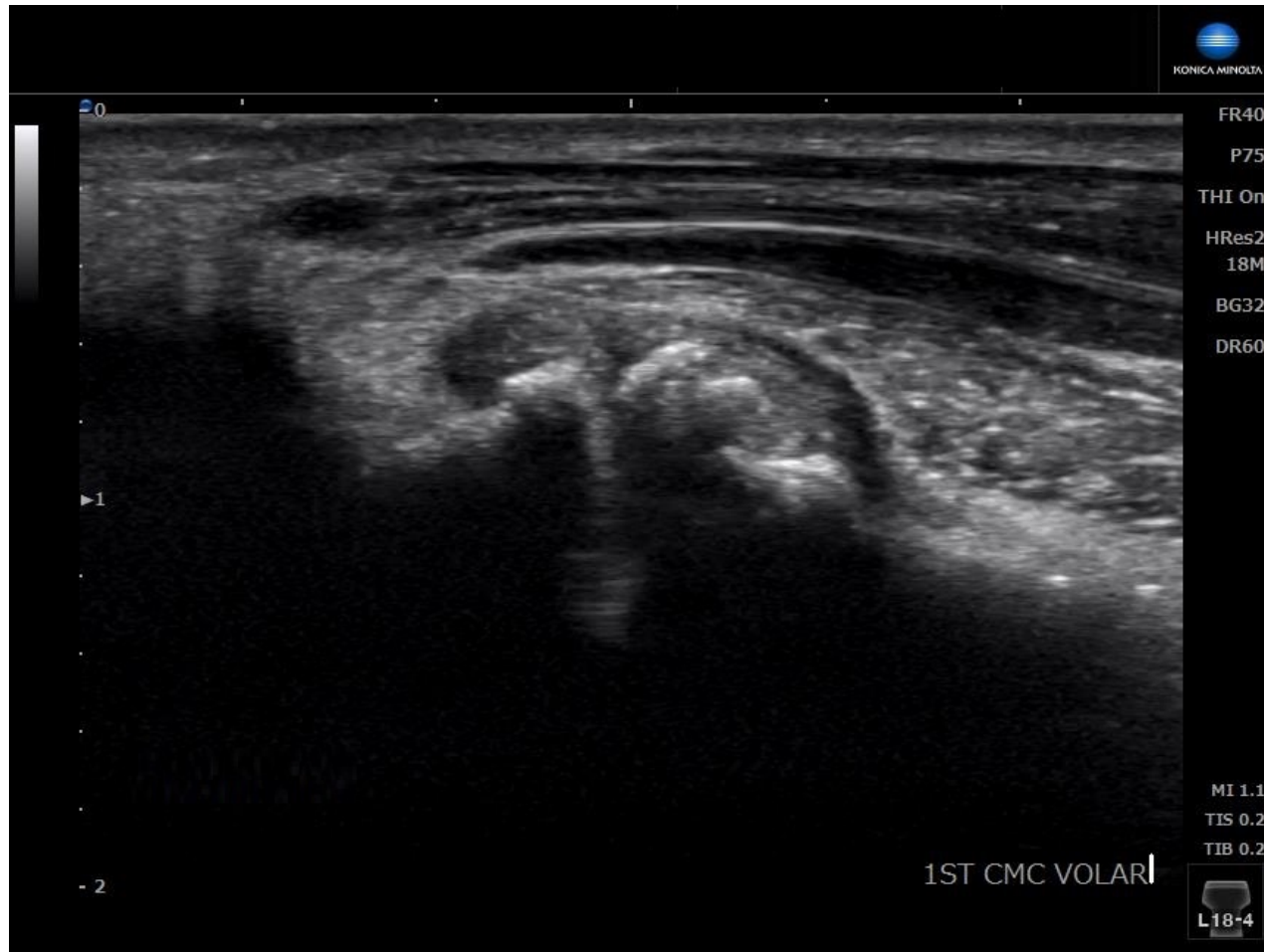
Konica Minolta HS1 RA Protocol Package

- Streamlined protocol with image annotation
- Customizable
- Reporting capability

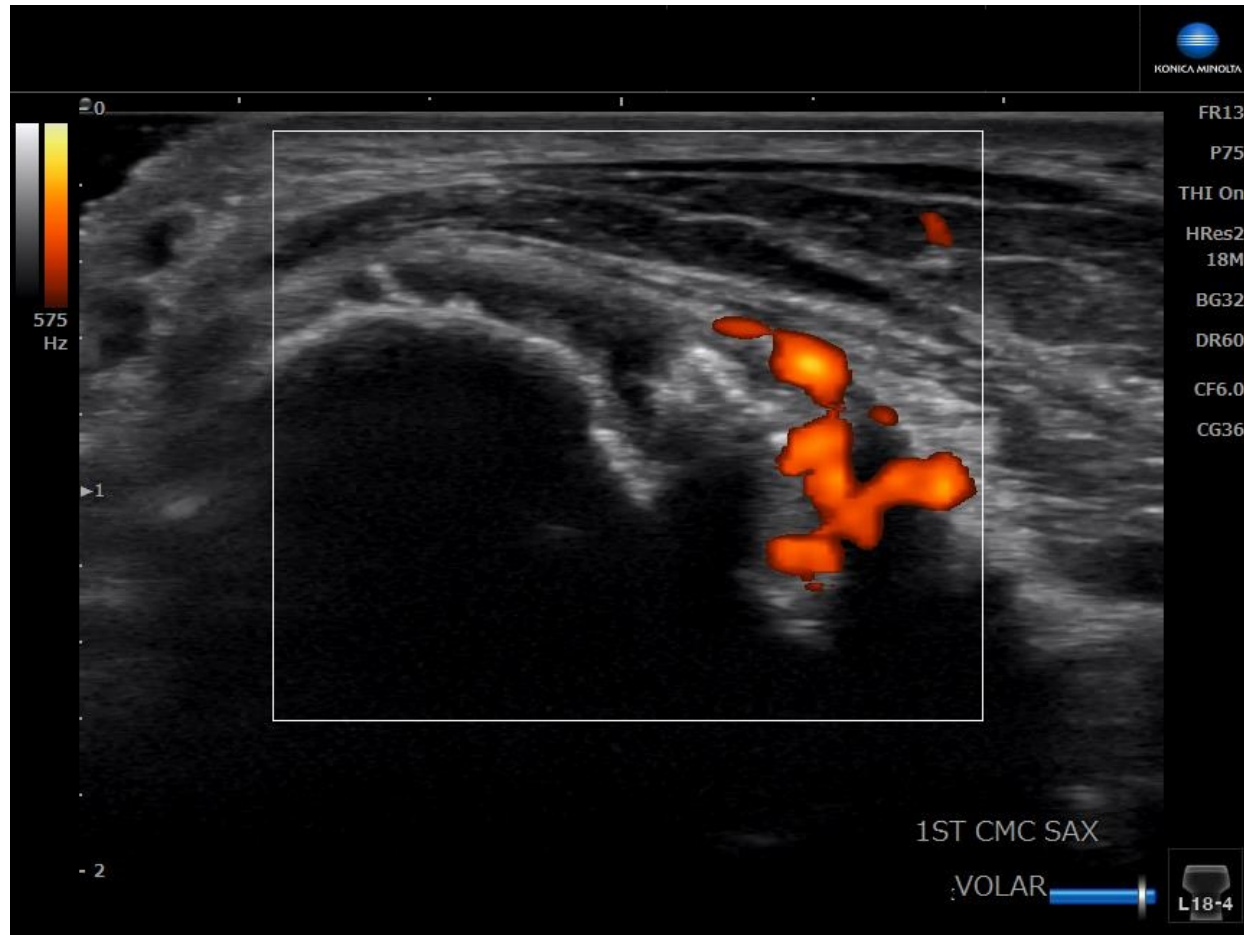
Common pathology

- Joint effusion
- Synovial proliferation and synovitis
- Tenosynovitis
- Rheumatoid nodules
- Ganglion cysts
- Cartilage thinning
- Cortical irregularities
 - Bony erosions
 - Osteophytes

Cortical irregularities



Synovitis with power Doppler



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